MODIS Science Data Support Team (SDST) Meeting Minutes 03/19/93

ATTENDEES: Francesco Bordi, Lloyd Carpenter, Jy-Tai Chang, Ruiming Chen, Larry Fishtahler, Al Fleig, Tom Goff, Paul Hubanks, Ed Masuoka, J.J. Pan, Shahin Samadi, Carl Solomon, Jim Storey, Lalit Wanchoo

NEXT MEETING: DATE   TIME   BUILDING   ROOM
                   Friday, April 9   10:00am   22   G95

          !!! NOTE: THERE WILL BE NO MEETING ON APRIL 2. !!!

TOPICS:

1. MODIS AIRBORNE SIMULATOR (MAS): Paul Hubanks is incorporating checks for bad navigation data in his computer program to automate the selection of straight-line flight tracks for MAS Level 1 processing.

The Goddard DAAC (Lola Olsen's group) has completed copying the MAS FIRE data tapes.

The MAS FIRE data entry for the NASA Climate Data System (NCDS) is on-line.

Processing of the ASTEX data is still on hold awaiting final calibration coefficients.

A modification to the MAS processing software will be required to properly handle the MAS Central Equatorial Pacific EXperiment (CEPEX) flights which crossed the 180-degree meridian.

Data repair will be needed for several Tropical Ocean Global Atmosphere/Coupled Ocean-Atmosphere Response Experiment (TOGA/COARE) and CEPEX flights where the MAS EXABYTE recorder failed to record the navigation data. The data can be retrieved from the dedicated INS recorder, except for those cases where it also failed. Hopefully, in these cases the navigation data from the GSFC based LYDAR (or other on-board) instrument can be used.

Due to leaky dewars, the MAS data from channels 4, 5, 6 and 7 is bad during the latter half of every TOGA/COARE and CEPEX flight.

Liam Gumley previously tested (with partial success) a pre-alpha version of the HDF/NetCDF integrated software. The new HDF 3.3 Alpha 3 release will be tested using the MAS processing code.

2. ALGORITHM DEPENDENCY DIAGRAM: J.J. Pan gave a comparison (with the prior versions) of the new algorithm dependency diagrams provided by Vince Salomonson for the Atmosphere, Land and Ocean disciplines. The new versions emphasize the concepts without showing all details of input data etc.

3. REQUIREMENTS FOR MATHEMATICAL LIBRARIES AND DATABASE SYSTEMS:
Ruiming Chen reported on the status of gathering information from the
MODIS science team members on their requirements for mathematical,
statistical and numerical libraries and database management systems
(DBMS) for the PGS Toolkit.

4. MODIS LEVEL 1A SYSTEM REQUIREMENTS REVIEW: Draft copies of the
MODIS Level 1A System Requirements Review report were provided to Al
Fleig and Ed Masuoka.

ACTION ITEMS:

12/22/92 [LLOYD CARPENTER]. Due Date: 03/19/93. Survey the MODIS
science team members to determine computer storage and processing
requirements for Level 2 processing. (Further progress was reported at
the meeting. Plans were made to interview team members during the
science team meeting.) STATUS: Open.

1/22/93 [LLOYD CARPENTER/TOM GOFF]. Develop SDST-final draft of Level 1
requirements/assumptions. Due Date: (Initial draft due 3/15/93; deliver
to MODIS science team members, EOSDIS, and other parties for review on
3/26/93; responses due back by 4/1/93). (The final draft was included
in the SRR report.) STATUS: Open.

3/5/93 [LLOYD CARPENTER/RUIMING CHEN]. Due Date: COB 03/10/93. Survey
the MODIS science team members to determine any requirements or
preferences for math libraries and Data Base Management System (DBMS)
packages in the PGS toolkit. (A status report was given at the
meeting.) STATUS: Open.